	Application No.	Applicant(s)
Notice of Allowability		
	09/446,738 Examiner	COHEN ET AL.
	Andrew Graham	2644
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 4/18</u>	<u>V05</u> .	·
2. The allowed claim(s) is/are 1,9,22, respectively renumbered	<u>d 1, 3, 2</u> .	
3. \square The drawings filed on <u>12 July 2004</u> are accepted by the Ex	aminer.	
4. ☐ Acknowledgment is made of a claim for foreign priority una a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM	been received. been received in Application cuments have been received	on No d in this national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 		
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review s Amendment / Comment or 84(c)) should be written on the	r in the Office action of he drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4/28/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance Andrew Graham 571-272-7517

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DETAILED ACTION

Claim Rejections - 35 USC § 112 - 2nd paragraph

1. The amendments made to Claims 1 and 22 overcome the previous grounds of rejection under 35 U.S.C. 112. Accordingly, said rejections are hereby withdrawn.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 4/28/2005 was filed after the mailing date of the first action on the merits, but before a final action. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Allowable Subject Matter

3. Claims 1, 9, and 22 are allowed.

For the purposes of allowance, these claims have been respectively renumbered, 1, 3, and 2.

4. The following is an examiner's statement of reasons for allowance:

As noted previously (see office action, mailed 1/31/2005), Claims 1, 9, and 22 are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, any motivation to combine any of said prior art to arrive at the limitation(s) of at least providing received ultrasound signals through front and rear channels to the right and left ears of

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a user, as defined in the independent claims, when such a limitation is considered in combination with each of the other limitations, including the physical structures, recited in each of the independent claims.

The concept of processing each of left and right input signals into front and rear channels for the purpose of applying the front channels to the same respective left and right ears while applying the respective rear channels to opposite respective ears, as is generally recited in the claims, is well known in the art, as is evidenced by the prior art of record Inanaga (Figure 1), Fidi (Figure 4). However, as stated, these references provide neither teaching nor motivation for providing each of left and right signals as ultrasound signals through front and rear channels. Neumann teaches the relative processing (12) of the input signals after demodulation (10,11). Inanaga et al (USPN 5687239) also teaches the demodulation (166) of an input signal before the processing (167,15-16,50-53) of an input for the formation of left and right headphone signals (Figure 12).

Claim 9 is dependent upon Claim 22 and thus includes the limitations of the independent claim and is allowable for the same reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Graham whose telephone number is 571-272-7517. The examiner can normally be reached on Monday-Friday, 8:30 AM to 5:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ja.

June 22, 2005

SUPERVISORY PATENT EXAMINER

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